

Claims

[c1]

What is claimed is:

1. A device for achieving network protocol independence comprising: A Physical Layer; An Application Layer; and A Smart Network Layer which interfaces the Physical Layer with the Application Layer.
2. The device in claim 1 further comprising: Said Physical Layer has two sub-levels, the Physical Medium which is an interface to the transmission means and the Physical Transmission layer which handles the transmission of data on a communication means.
3. The device in claim 1 further comprising: Said Smart Network Layer consists of the following sub-levels, the Network Routing which handles network routing and load balance, the Packet Transport which handles packet transportation, and the Data Encryption which handles data security.
4. The device in claim 1 further comprising the if the physical network does not implement network services required by the Application layer, the Smart Network layer will implement said services.
5. The device in claim 1 further comprising the Data Encryption sub-layer implementing one or more encryption algorithms.
6. The device in claim 1 further comprising said Physical Layer being based in hardware.
7. A method for achieving network protocol independence, the method comprising the steps of: Having a Physical Layer; Having an Application Layer; and Having a Smart Network Layer which interfaces the Physical Layer with the Application Layer.
8. The method in claim 7 in which said Physical Layer has two sub-levels, the Physical Medium which is an interface to the transmission means and the Physical Transmission which handles the transmission of data on a communication means.
9. The method in claim 7 in which said Smart Network Layer consists of the following sub-levels, the Network Routing which handles network routing and load balance, the Packet Transport which handles packet transportation, and the Data Encryption which handles data security.
10. The method in claim 7 in which if the physical network does not implement

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